CONTENTS
for Volume 207

No. 1: August 2004

PHYSIOLOGY AND BIOMECHANICS

Johnsen, Sönke, Edith A. Widder, and Curtis D. Mobley
Propagation and perception of bioluminescence: factors affecting counterillumination as a cryptic strategy 1

Pratt, Marney C.
Effect of zooid spacing on bryozoan feeding success: Is competition or facilitation more important? 17

DEVELOPMENT AND REPRODUCTION

Hadfield, Michael G., and M.A.R. Koehl
Rapid behavioral responses of an invertebrate larva to dissolved settlement cue 28

NEUROBIOLOGY AND BEHAVIOR

Keller, Troy A., and Marc J. Weissburg
Effects of odor flux and pulse rate on chemosensory tracking in turbulent odor plumes by the blue crab, *Callinectes sapidus* 44

CELL BIOLOGY

Conrad, Mara, JoAnna DeNobile, Irina Chaikhoutdinov, Douglas Escribano, Kyeng-Gea Lee, and William D. Cohen
Cytoskeletal organization of *Limulus* amebocytes pre- and post-activation: comparative aspects 56

RESEARCH NOTE

Pernet, Bruno, and William B. Jaeckle
Size and organic content of eggs of marine annelids, and the underestimation of egg energy content by dichromate oxidation 67

Chabot, Christopher C., Jeffrey Kent, and Winsor H. Watson III
Circatidal and circadian rhythms of locomotion in *Limulus polyphemus* 72

No. 2: October 2004

RESEARCH NOTES

Schulz, Joseph R., Alex G. Norton, and William F. Gilly
The projectile tooth of a fish-hunting cone snail: *Conus catus* injects venom into fish prey using a high-speed ballistic mechanism 77

Koike, Kazuhiko, Mitsuru Jimbo, Ryuichi Sakai, Masami Kaeriyama, Koji Muramoto, Takehiko Ogata, Tadashi Maruyama, and Hisao Kamiya
Octocoral chemical signaling selects and controls dinoflagellate symbionts 80

SYMBIOSIS AND PARASITOLOGY

Lewis, Louise A., and Gisèle Muller-Parker
Phylogenetic placement of "zoochlorellae" (Chlorophyta), algal symbiont of the temperate sea anemone *Anthopleura elegantissima* 87

DEVELOPMENT AND REPRODUCTION

McDonald, Kathryn
Patterns in early embryonic motility: effects of size and environmental temperature on vertical velocities of sinking and swimming echinoid blastulae 93

ECOLOGY AND EVOLUTION

Santagata, Scott
A waterborne behavioral cue for the actinotroch larva of *Phoronis pallida* (Phoronida) produced by *Upogebia pugettensis* (Decapoda: Thalassinidea) 103

Francis, Lisbeth
Microscaling: why larger anemones have longer cnidae 116

Kramer, Andrew, and Lisbeth Francis
Predation resistance and nematocyst scaling for *Metridium senile* and *M. farcimen* 130

NEUROBIOLOGY AND BEHAVIOR

Anderson, Peter A. V., Louise F. Thompson, and Craig G. Moneypenny
Evidence for a common pattern of peptidergic innervation of cnidocytes 141

* * *

Abstracts from the 2004 General Scientific Meetings of the Marine Biological Laboratory 147

Neurobiologist James L. Olds named 10th editor of *The Biological Bulletin* iv

RESEARCH NOTES

Govenar, B., M. Freeman, D. C. Bergquist, G. A. Johnson, and C. R. Fisher
Composition of a one-year-old *Riftia pachyptila* community following a clearance experiment: insight to succession patterns at deep-sea hydrothermal vents 177
Rutishauser, Rachel L., Alo C. Basu, Stuart I. Cromarty, and Edward A. Kravitz
Long-term consequences of agonistic interactions between socially naïve juvenile American lobsters *(Homarus americanus)* 183
Chappell, Richard L., Haohua Qian, Jane Zakevicius, and Harris Ripps
Histidine suppresses zinc modulation of connexin hemichannels 188
Qian, Haohua, Richard L. Chappell, Stephen Redenti, and Harris Ripps
Potassium currents distinguish the two subtypes of morphologically distinct skate bipolar cells 191

NEUROBIOLOGY AND BEHAVIOR

Garm, Anders, Charles D. Derby, and Jens T. Høeg
Mechanosensory neurons with bend- and osmo-sensitivity in mouthpart setae from the spiny lobster *Panulirus argus* 195
Mori, Kazuo, Takehiko Saito, and Taketeru Kuramoto
Physiological and morphological identification of photosensitive neurons in the opisthosomal ganglia of *Limulus polyphemus* 209

PHYSIOLOGY AND BIOMECHANICS

Knott, N. A., A. R. Davis, and W. A. Buttemer
Passive flow through an unstalked intertidal ascidian: Orientation and morphology enhance suspension feeding in *Pyura stolonifera* 217
Lohrmann, Nissa L., Barry A. Logan, and Amy S. Johnson
Seasonal acclimatization of antioxidants and photosynthesis in *Chondrus crispus* and *Mastocarpus stellatus*, two co-occurring red algae with differing stress tolerances 225

ECOLOGY AND EVOLUTION

Krug, Patrick J., and Richard K. Zimmer
Developmental dimorphism: consequences for larval behavior and dispersal potential in a marine gastropod 233
Wang, Yongping, and Ximing Guo
Chromosomal rearrangement in Pectinidae revealed by rRNA loci and implications for bivalve evolution 247

* * *

Index for Volume 207 257